



OIPe

RAW SEQUENCE LISTING

DATE: 02/11/2002

PATENT APPLICATION: US/10/044,896

TIME: 10:20:09

Input Set : A:\GENENT.074A.txt

Output Set: N:\CRF3\02112002\J044896.raw

ENTERED

4 <110> APPLICANT: Chuntharapai, Anan
 5 Kim, Jin K.
 6 Stewart, Timothy
 7 Presta, Leonard G.
 9 <120> TITLE OF INVENTION: ANTI-INTERFERON-ALPHA ANTIBODIES
 12 <130> FILE REFERENCE: GENENT.074A
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/044,896
 C--> 14 <141> CURRENT FILING DATE: 2002-01-09
 14 <150> PRIOR APPLICATION NUMBER: 60/270775
 15 <151> PRIOR FILING DATE: 2001-02-22
 17 <160> NUMBER OF SEQ ID NOS: 14
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 114
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Murine
 26 <400> SEQUENCE: 1
 27 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 28 1 5 10 15
 29 Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
 30 20 25 30
 31 Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
 32 35 40 45
 33 Lys Val Leu Ile Ser Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
 34 50 55 60
 35 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
 36 65 70 75 80
 37 Pro Val Glu Glu Gly Asp Thr Ala Thr Tyr Phe Cys Gln His Ser Trp
 38 85 90 95
 39 Gly Ile Pro Arg Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Arg Arg
 40 100 105 110
 41 Ala Val
 45 <210> SEQ ID NO: 2
 46 <211> LENGTH: 119
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Murine
 50 <400> SEQUENCE: 2
 51 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 52 1 5 10 15
 53 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr
 54 20 25 30
 55 Ile Ile His Trp Val Lys Gln Gly His Gly Arg Ser Leu Glu Trp Ile
 56 35 40 45

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57 Gly Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe
58      50                      55                      60
59 Lys Gly Lys Ala Thr Leu Thr Leu Asp Lys Ser Ser Arg Thr Ala Tyr
60 65                      70                      75                      80
61 Leu Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
62                      85                      90                      95
63 Ala Ser Trp Ile Ser Asp Phe Phe Asp Tyr Trp Gly Gln Gly Thr Thr
64                      100                      105                      110
65 Leu Met Val Ser Ala Ala Ser
66      115
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 114
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: This sequence represents a humanized chimeric
76      antibody comprising human and non-human sequences.
78 <400> SEQUENCE: 3
79 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
80 1      5                      10                      15
81 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
82      20                      25                      30
83 Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
84      35                      40                      45
85 Lys Val Leu Ile Ser Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ser
86      50                      55                      60
87 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
88 65                      70                      75                      80
89 Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp
90      85                      90                      95
91 Gly Ile Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
92      100                      105                      110
93 Thr Val
97 <210> SEQ ID NO: 4
98 <211> LENGTH: 110
99 <212> TYPE: PRT
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 4
103 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
104 1      5                      10                      15
105 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr
106      20                      25                      30
107 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
108      35                      40                      45
109 Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
110      50                      55                      60
111 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
112 65                      70                      75                      80
113 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Leu Pro Trp

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114          85          90          95
115 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
116          100          105          110
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 119
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: This sequence represents a humanized chimeric
126     antibody comprising human and non-human sequences.
128 <400> SEQUENCE: 5
129 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
130 1          5          10          15
131 Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr Glu Tyr
132          20          25          30
133 Ile Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
134          35          40          45
135 Ala Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe
136          50          55          60
137 Lys Gly Arg Phe Thr Ile Ser Leu Asp Lys Ser Lys Arg Thr Ala Tyr
138 65          70          75          80
139 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
140          85          90          95
141 Ala Ser Trp Ile Ser Asp Phe Phe Asp Tyr Trp Gly Gln Gly Thr Leu
142          100          105          110
143 Val Thr Val Ser Ser Ala Ser
144          115
147 <210> SEQ ID NO: 6
148 <211> LENGTH: 119
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 6
153 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
154 1          5          10          15
155 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
156          20          25          30
157 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
158          35          40          45
159 Ala Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
160          50          55          60
161 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
162 65          70          75          80
163 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
164          85          90          95
165 Ala Arg Gly Arg Val Gly Tyr Tyr Asp Tyr Trp Gly Gln Gly Thr Leu
166          100          105          110
167 Val Thr Val Ser Ser Ala Ser
168          115
171 <210> SEQ ID NO: 7

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172 <211> LENGTH: 15
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 7
177 Arg Ala Ser Gln Ser Val Ser Thr Ser Ser Tyr Ser Tyr Met His
178 1 5 10 15
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 7
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 8
187 Tyr Ala Ser Asn Leu Glu Ser
188 1 5
191 <210> SEQ ID NO: 9
192 <211> LENGTH: 10
193 <212> TYPE: PRT
194 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 9
197 Gln His Ser Trp Gly Ile Pro Arg Thr Phe
198 1 5 10
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 10
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 10
207 Gly Tyr Thr Phe Thr Glu Tyr Ile Ile His
208 1 5 10
211 <210> SEQ ID NO: 11
212 <211> LENGTH: 17
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 11
217 Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe Lys
218 1 5 10 15
219 Gly
223 <210> SEQ ID NO: 12
224 <211> LENGTH: 8
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 12
229 Trp Ile Ser Asp Phe Phe Asp Tyr
230 1 5
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 30
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 13
239 gatcgggaaa gggaaaccga aactgaagcc
241 <210> SEQ ID NO: 14

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30

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Input Set : A:\GENENT.074A.txt

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242 <211> LENGTH: 30

243 <212> TYPE: DNA

244 <213> ORGANISM: Homo sapiens

246 <400> SEQUENCE: 14

247 gatcggttc agtttcggtt tccctttccc

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/044,896

DATE: 02/11/2002

TIME: 10:20:10

Input Set : A:\GENENT.074A.txt

Output Set: N:\CRF3\02112002\J044896.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date